

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method to wirelessly communicate data over a plurality of cellular channels, comprising:

sniffing for available frequency channels of the plurality of cellular channels via a mobile station;

requesting an allocation of ~~preferably adjacent~~ cellular frequency channels from ~~[[a]]~~ the mobile station to a base station; and

receiving an allocation of allocating available cellular frequency channels at the mobile station in response to the request from the mobile station.

Claim 2 (currently amended): The method of claim 1, further comprising communicating on a short-range radio channel between the mobile station and the base station.

Claim 3 (original): The method of claim 2, wherein the short-range radio channel is Bluetooth or WLAN (802.11x).

Claim 4 (currently amended): The method of claim 2, further comprising characterizing the ambient radio environment and dynamically discovering available and active radio protocols including the short-range radio channel.

Claim 5 (currently amended): The method of claim 2, further comprising substituting at least one of the allocated cellular channel channels with the short-range radio channel if the at least one allocated cellular channel becomes unavailable.

Claim 6 (currently amended): The method of claim 2, further comprising substituting the short-range radio channel with at least one of the allocated cellular ~~channel~~ channels if the short-range radio channel becomes unavailable.

Claim 7 (currently amended): The method of claim 2, further comprising scanning an ambient radio environment using a parallel set of sniffer circuits.

Claim 8 (cancel)

Claim 9 (currently amended): The method of claim ~~[[1]]~~ 2, further comprising bonding the short-range radio channel with the allocated cellular frequency channels to increase bandwidth of data communication between the mobile station and the base station.

Claims 10-14 (cancel)

Claim 15 (currently amended): The method of claim ~~[[5]]~~ 1, further comprising transmitting cellular packet data conforming to one of the following protocols: cellular digital packet data (CDPD) (for AMPS, IS-95, and IS-136), General Packet Radio Service (GPRS) and EDGE (Enhanced Data for Global Evolution).

Claim 16 (currently amended): A mobile device comprising:

a reconfigurable processor core, comprising:

one or more processing units;

a long-range transceiver ~~unit~~ coupled to the processing units, the long-range transceiver ~~unit~~ configured to communicate ~~communicating~~ over a plurality of cellular frequency channels;

a short-range transceiver coupled to the processing units; and

a radio frequency sniffer coupled to at least one of the transceivers; and

an antenna coupled to the radio frequency sniffer.

Claim 17 (currently amended): The ~~processor core~~ mobile device of claim ~~[[11]]~~ 16, wherein the reconfigurable processor core includes ~~one or more~~ a plurality of digital signal processors (DSPs).

Claim 18 (currently amended): The ~~processor core~~ mobile device of claim ~~[[11]]~~ 17, wherein the reconfigurable processor core includes one or more reduced instruction set computer (RISC) processors.

Claim 19 (currently amended): The ~~processor core~~ mobile device of claim ~~[[11]]~~ 16, further comprising a router coupled to the one or more processing units.

Claim 20 (currently amended): The ~~processor core~~ mobile device of claim ~~[[11]]~~ 16, wherein the short-range transceiver is configured to communicate ~~communicates~~ over a

short-range radio channel, further comprising a circuit configured to bond ~~means for bonding~~ the short-range radio channel with the cellular frequency channels to increase bandwidth of data communication between the mobile device and a base station.

Claim 21 (new): The mobile device of claim 16, wherein the reconfigurable processor core comprises an integrated circuit formed on a single substrate including the one or more processing units, the long-range transceiver, and the short-range transceiver.

Claim 22 (new) The mobile device of claim 16, wherein the reconfigurable processor core is configured to request data communication with a base station over the plurality of cellular frequency channels and a short-range radio channel bonded together.

Claim 23 (new): The mobile device of claim 22, wherein the reconfigurable processor core is configured to determine a number of channels to be used for the data communication based upon a user request for the data communication.

Claim 24 (new): The method of claim 1, further comprising receiving from a user of the mobile station a request for a bandwidth sufficient to communicate at least one file.

Claim 25 (new): The method of claim 24, further comprising determining a number of channels for the allocation request based on a size of the at least one file.

Claim 26 (new): The method of claim 1, further comprising receiving a request from a user of the mobile station to bond the allocated cellular frequency channels and a short-range radio channel.

Claim 27 (new): The method of claim 1, wherein requesting the allocation of cellular frequency channels comprises requesting an allocation of preferably adjacent cellular frequency channels.